

Official Gazette for Kokai Patent Applications, Front Page

(11) Publication no.: Unexamined Patent Application Publication No. H05-101741

(43) Disclosure date: April 23, 1993

(51) Int. Cl.⁵H01H 13/52
13/12

(21) Application no.: Patent Application No. H03-258975

(71) Applicant: Matsushita Electric
Industrial Co., Ltd.

(22) Application date: October 7, 1991

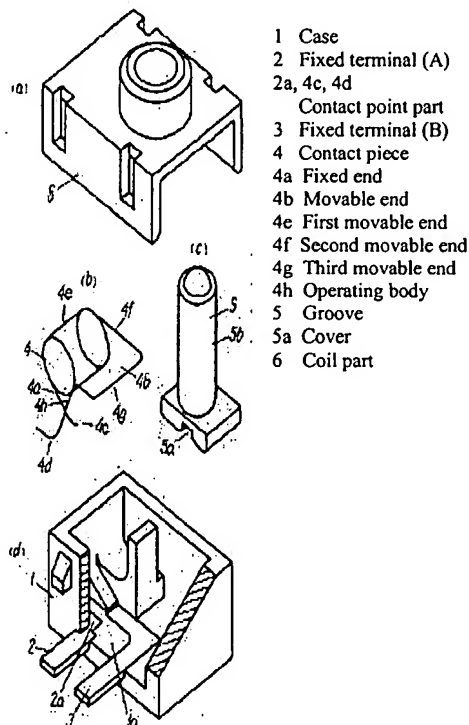
(72) Inventor(s): Kenji Yasufuku

(54) Push Switch

(57) [Abstract] (amended)

[Purpose] To provide a detecting push switch to be used in various electric equipment, which is made compact and thin, with a long stroke, and which has high ON position accuracy.

[Constitution] A second movable end 4g of a contact piece 4 is provided in parallel with the bottom surface of a case, and a second movable end 4b, which is extended from a first movable end 4f in the fixed-end 4a direction at a length nearly equal to the full length of a coil part 4e, is fitted in a U-shape groove 5a shorter than the second movable end 4g provided in an operating body 5, and is energized so as to be slidable in the longitudinal direction, inside of the case 1. When the operating body 5 is pushed down, the space between [the operating body 5] and a fixed terminal (B) 13 is restricted to nearly same dimension as the diameter of an element wire forming the contact piece 4, thereby enabling compactization, thinning, and stroke lengthening. Moreover, since a movable contact point part 4d of the tip of a third movable end 4h orthogonally crossing the second movable end 4b and extended in the coil part 4e direction abuts in advance a molding resin part 1a of the bottom surface of the case, [the movable contact point part 4d] is not influenced by variation in the forming dimension of the movable end 4b, thereby yielding high ON position accuracy.



- 1 Case
- 2 Fixed terminal (A)
- 2a, 4c, 4d Contact point part
- 3 Fixed terminal (B)
- 4 Contact piece
- 4a Fixed end
- 4b Movable end
- 4e First movable end
- 4f Second movable end
- 4g Third movable end
- 4h Operating body
- 5 Groove
- 5a Cover
- 6 Coil part